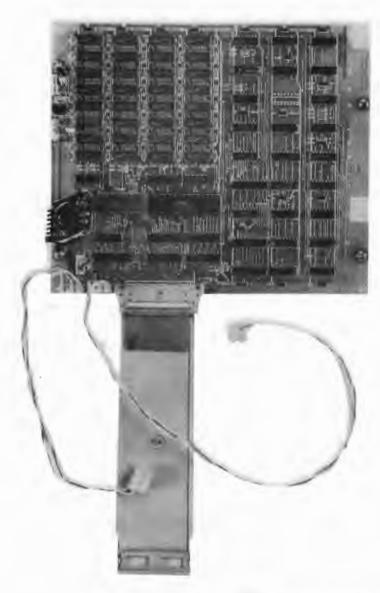
## Commodore 64K Add-On Memory

## **Technical Manual**



Cx commodore COMPUTER

DESCRIPTION						
PCB ASSY-PET 64K MEMORY						

		REVISIONS		
LTR	ZONE	DESCRIPTION	DATE	APPROVED
A		PRODUCTION RELEASE	3/5/81	c. 11
В		REV PER ECO 2079	1/23/11	May
C		REV PER ECO 2094	7/181	When

2 IDENTIFY WITH APPLICABLE DASH NO. AND REVISION LEVEL

1. SHEET 4 OF 4 SIZE D

ASSY DWG

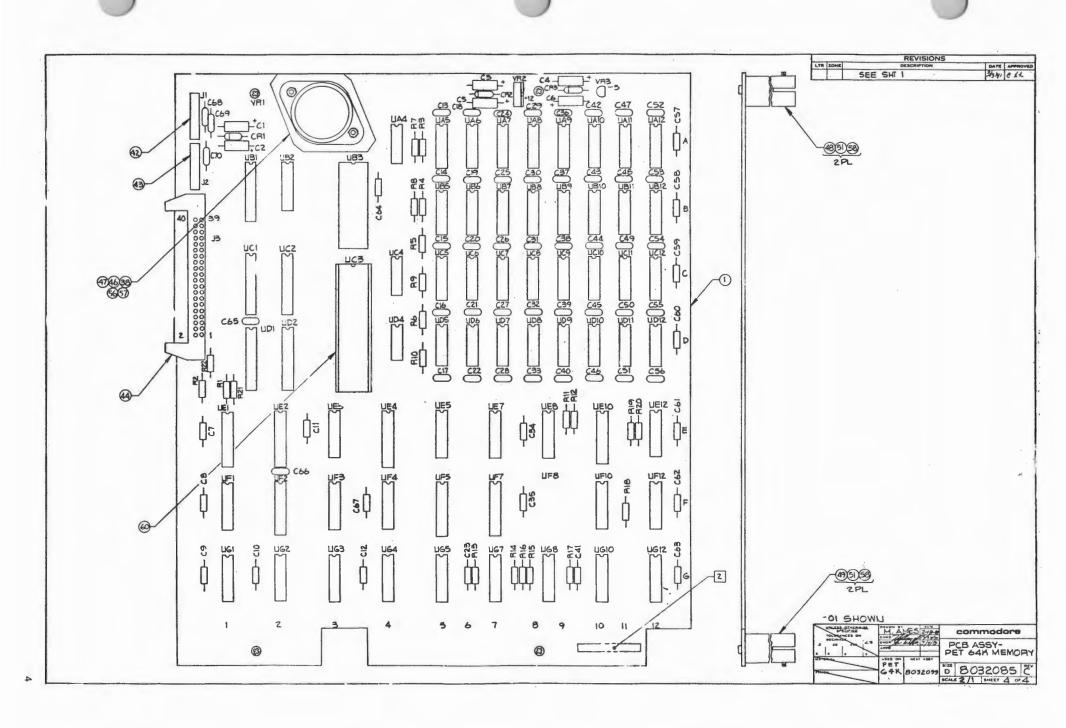
NOTES UNLESS OTHERWISE SPECIFIED

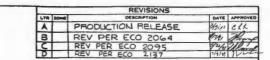
	TITLE:			
commodore	PCB	ASSY-PET	64K	MEMORY

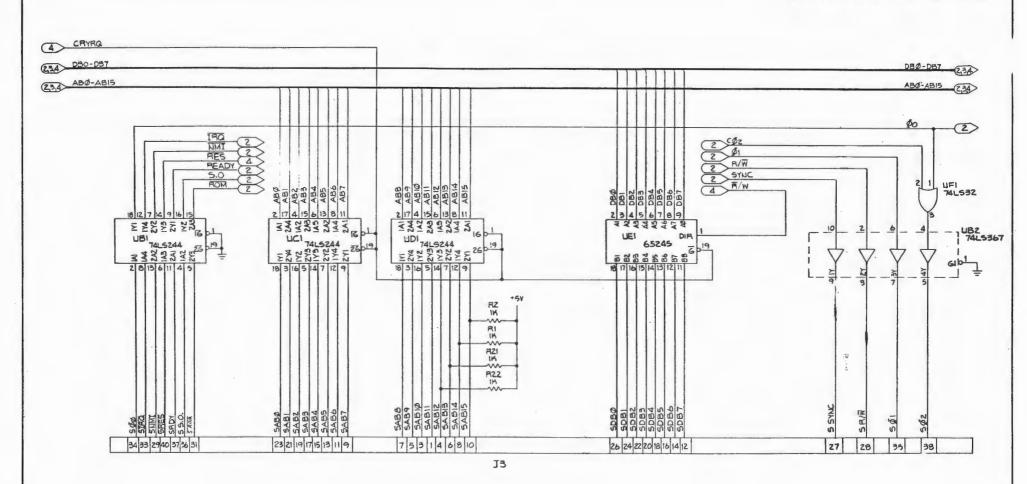
7	DRAWN BY.	DATE	ENGR Soll	140000	4/0/	175	DRAWING N	IMBER	
	MAMES	2-/8-8/	APPR:	13/		0		2085	5
	CHKD	3/27/31				P :	SHEET	of 4	

			1234567891011			PCB FAB, PET 64K MEMORY LOGIC DIAGRAM-PET 64K MEMORY IC, 74LSOO 1, 74LSO4 1, 74LSO8 1,74LSO8	UD4,UG4 UE3,UE5 UG12 UG1	TE BENO	=7,U=12.U62
			234567891011		901521-01 901521-02 901521-02 901521-03 901521-04 901521-05	LOGIC DIAGRAM-PET 64K MEMORY IC, 74L500 1, 74L504 1, 74L508 1,74L520	UD4,UG4 UE3,UE5 UG12 UG1	'TE	=7,UF12.U62
			34567891011		901521-01 901521-02 901522-30 901521-03 901521-04 901521-05	IC, 74L500 1, 74L504 1, 7407 1, 74L508 1,74L520	UD4,UG4 UE3,UE5 UG12 UG1	,UE	7,UF12.U62
		22	4567891011		901521-02 901522-30 901521-03 901521-04 901521-05	74LS04 7407 74LS08 74LS20	UE3, UE5 UG12 UG1	,UE	7,UF12.U62
		22	567891011		901521-02 901522-30 901521-03 901521-04 901521-05	74LS04 7407 74LS08 74LS20	UE3, UE5 UG12 UG1	,U€	7,0512.062
		22	67891011	000000	901521-03 901521-03 901521-04 901521-05	7407 741508 741520	UG12 UG1		
		2	7891011	B	901521-05	74L508	UG1		
		2	891011	B	901521-05	,74L520			
		2	10	B	901521-05		UF4,UG5		
		CA LER	10	B	901521 31	174L521	UF3.UG3		
		3	3141	岩	1 - 1 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	3741532	USIO, UFI		
		3	12		901521-44	741537	UA4,UC4.	TE	8
		8		100	901521-06	74LS74	UE12.UG		
			115	음	901525-02	174 5133	UF2	14	
		1 1	113	금	901521-18	17413139	UF5	-	SUBSTITUTE FOR ITEM 24
		1				745140	UFIO	-	
		-	113	B	901525-14	74.6344		170	2,UD1,UD2
<del>-                                     </del>		3	119	B	901521-13	74LS244	UEA UES	44	[C,0D1,0D2
		16	114	B	901563-01	65245	UE1 ·UEZ	$\vdash$	
		1	113	B	901521-42	,74L5273	LE4	-	
		11	20	믕	901521-47	174LS367	UF7	$\vdash$	
		1	154	IB	901521-45				UB5-UB12 :UC5-UC12,UD5-UD12
		1	451	믕	901470-01	34116-4		1	183-0012 ,063-0612
		1. 1.	22	무	901435-02	,6502 A	UC3	-	
			145	1 5	901561 - 01	1 ,3242	<b>ЦВЗ</b>	-	HOT ITELL IS FOR SUBSTITUTE
			154	B	901521 - 15	IC , 74 LS 133	UF2		USE ITEM 13 FOR SUBSTITUTE
		-	25		000100 00	CADELECTION IN 18 FIRE	CI C2 C 4		
		1	150	15	900109-03	CAPELECTION LEAK, 100F/25Y	(1,13,14	-	
		1	12	8	900402-13	TANTALUM 1MF/35Y	C2,C5,C6		
		-	1		900020-01	CEDAMIC MAND 1 = 150	1612.622		34-623-626-40-642-66-64-66-41-62-3
	+++	1 4	345	19	900020-01	CEMAMIC MONO JAF/50)	173.CZZ	100	24-C33,C36-40,C42-56,C56,66,C68-7 3,C34,C35,C41,C57-C64,C67
	1	1	3100	10	400461-28	CAP, CEMAMIC AXIAL. INF/50Y	61-612,6	-6	3,634,633,641,637-664,661
		1	3	-	DAICE A	DECIGEO ALCONILIUMES III	512 13		
		1	1133	10	901550-01	RESISTOR, CARBON 14W5% 1K	HI, E, 13-1	1,	19,20, R21, R22
		1	115		1901550-107	RESISTOR CARBON 4W5%101	HID I		
		1	0 34	13	901550-64	RESISTOR, CARBON VANS \$10.	H3-16		
			35		0000000	DIODE MILAGO	1001 200		
	+++		33		900750-05	DIODE IN4005	CRI-CR3		
			13	1		Toolin ov	DATE	1000	AL AL DATE RIZE
commo	odo	re	1	TITU	A ACCY	PET 64K MEMORY CHERT	5 2-18-81 2-18-81	017	WAR 37/8 B 8032085 5 27

QUANTITY REOD PER PART / DASH NO.	E E	SO	PART NUMBER	DESCRIPTION	REF DES	BEND	NOTES
		B	901578-03	VO TAGE REGULATOR TO-3	VRI		7805CK
	1139	E	901527-01	VOLTAGE REGULATOR TO-3 VOLTAGE REGULATOR TO-220	VR2		7812 CT
	40			VOLTAGE REGULATOR TO92			
	141	B	901562-01	VOLTAGE REGULATOR TO 92	VR3		
	1 42	8	903326-07	HEADER ASSY, 7 PIN HEADER ASSY, 7 PIN HEADER ASSY, 40 PIN HEATSINK	9		REMOVE PIN 3' AT ASSEMBLY
	1143	B	903331-07	HEADER ASSY, 7 PIN	12		REMOVE PIN 3 AT ASSEMBLY
	1 44	B	903373-01	HEADER ASSY, 40 PIN	JB		
	45						
	146	B	902906-01	HEATSINK			
	1647	В	904907-01	HEATSINK, THERMAL COMPOUND			
	248	B	907169-01	STANDOFF, STRADDLING			LENGTH= 1.062 INCHES
	249	B	907169-02	HEATSINK, THERMAL COMPOUND STANDOFF, STRADDLING STANDOFF, STRADDLING			LENGTH=1.312 INCHES
	150						
	451	B	906620-02	SCREW. PHILLIP HEAD #8-32			UNC 2B .38 DEEP
	52						
	1 53	B	900600-01	DELAY LINE, 250ns	LEIO		TZB 84-10
	54 55						
	55						
	256	B	906610-04	SCREW, PHILLIP HEAD #6-32 x	.31 LG		
	12 57	B	1905970-04	NUT, KEP #6			
	4 58	B	906621-03	SET SCREW, HEX SOCKET, 6814			
	59						
	160	8	904150-06	BOCKET, IC LOW PROFILE 40PIN	XUC3		
	61			,			
	62						
	63						
	64						
	65					_	
	67					-	
	68					-	
	67					-	
	38					_	
	6				-	-	
	70	-			-	-	
	71				-	-	
	72	-				-	
	73	1		I DOWN BY:	DATE E	NGR	DATE SIZE
ommodor	0		O ACEV-	PET 64K MEMORY CHIKO	E5 2-18-81		SIZE B 8032085 EV







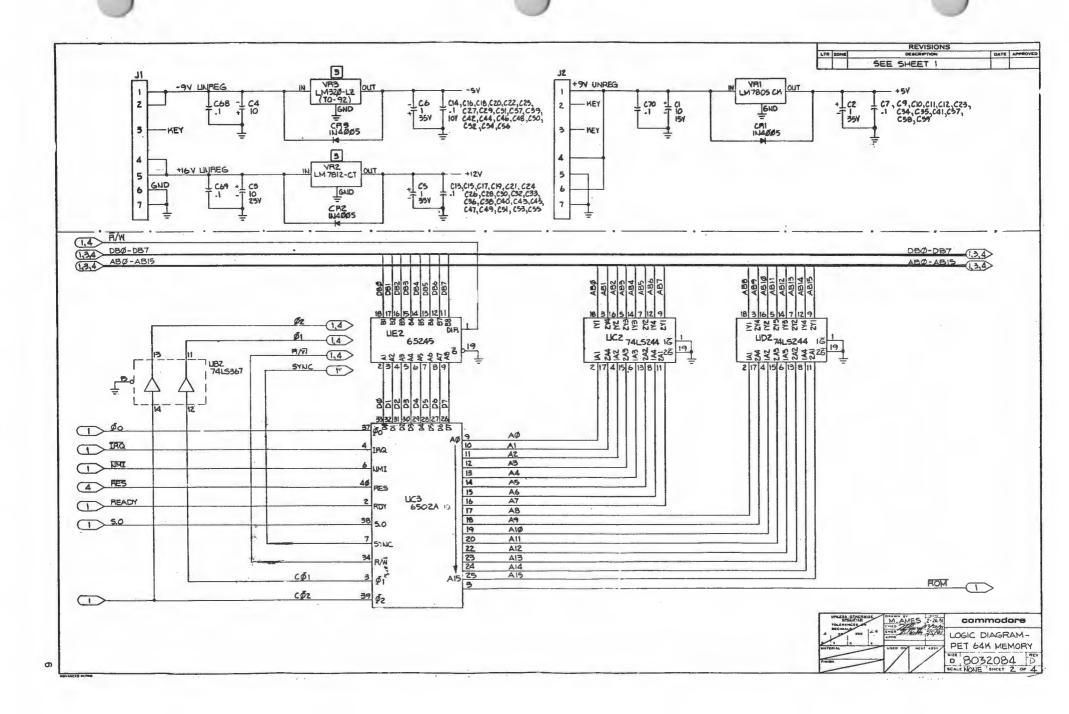
3 DO NOT MOUNT FLUSH TO THE BOARD. MOUNT STANDING UP.
2. CAPACITANCE VALUES ARE IN MICROFARADS, SOY,

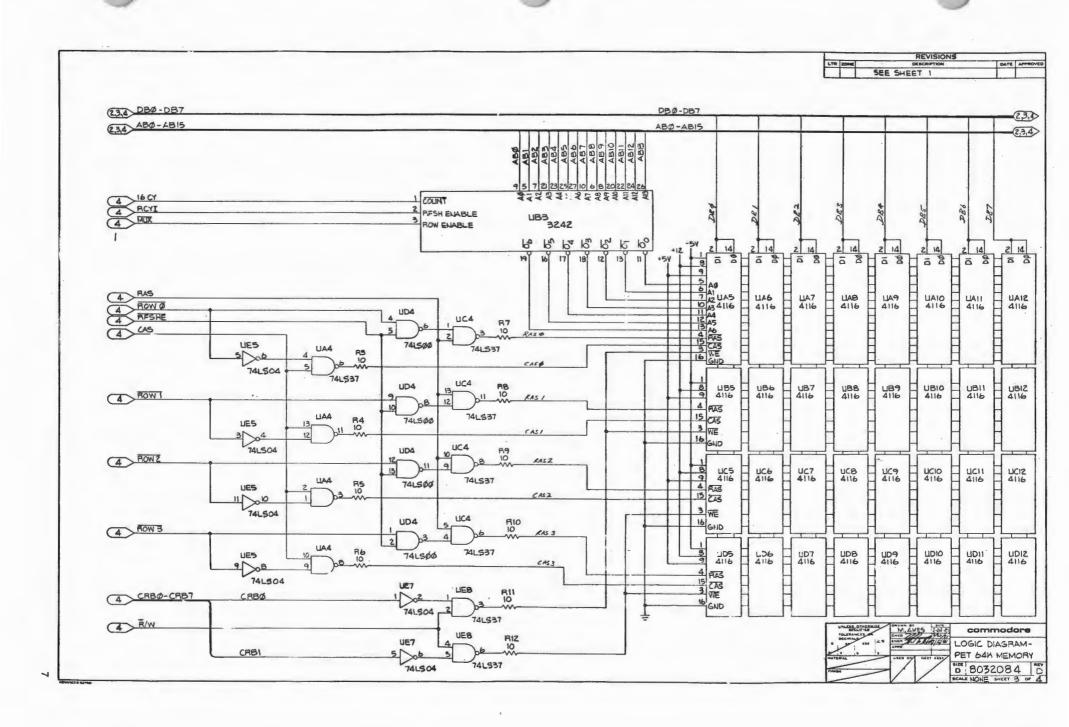
I. RESISTANCE VALUES ARE IN OHMS, 1/4W 15%.

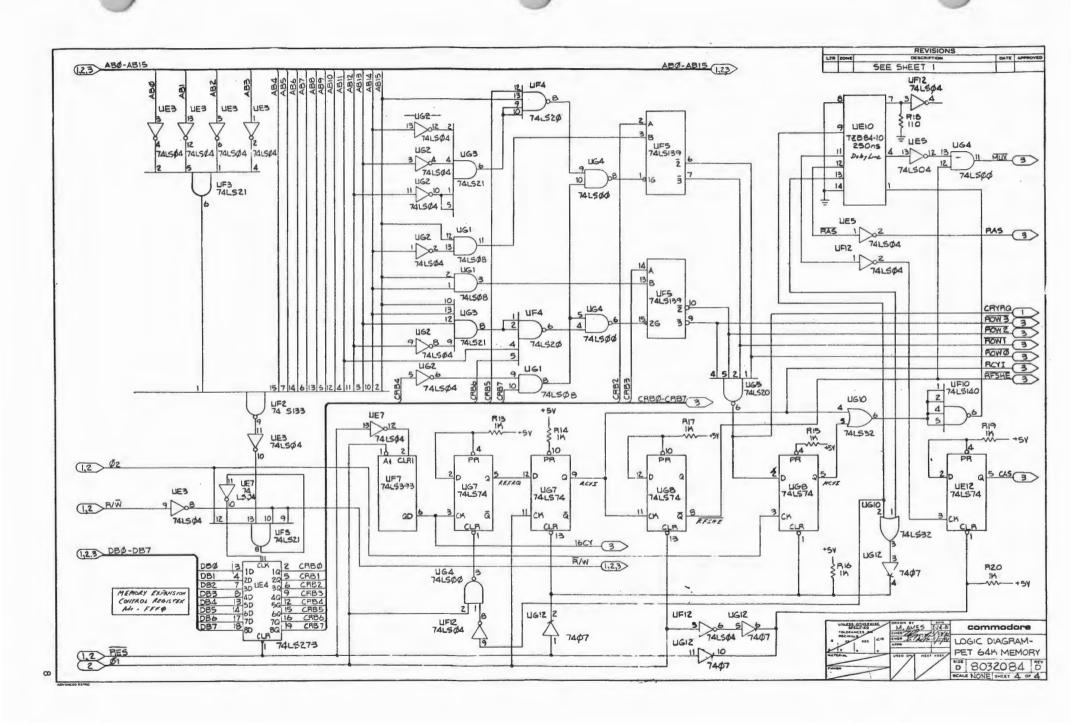
NOTES-UNLESS OTHERWISE SPECIFIED:

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| SEE OF COMMON OF COMMON







PART NO.	DESCRIPTION
8032110-01	PCB ASSY-PET 64K MEMORY
	P-10-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1

	REVISIONS		
LTR ZON	DESCRIPTION	DATE	APPROVED
A	PRODUCTION RELEASE	6/1/81	Alter
В	REV PER ECO 2125	7/2/81	Whe
C	REV PER ECO 2185	8/2/91	mule
D	REV PER ECO 2208	19/20/91	arage
D	REV PER ECO 2242	9/21/3/	adjutte
E	REV PER ECO 2305	9/30/01	20019
F	REV PER ECO 2344	1928/31	mul
G	REV PER ECO 2770	1/88	Muto
H	REVISED PER ECO 3031	2/3/87	JOKal

- REFER TO PART SUBSTITUTION INDEX 32/233, ITEM NO. 1 FOR SUBSTITUTE.
- 3 REFER TO REWORK INSTRUCTIONS
- 2 IDENTIFY WITH APPLICABLE DASH NO. AND REVISION LEVEL.

1. SHEET 4 OF 4 SIZE D

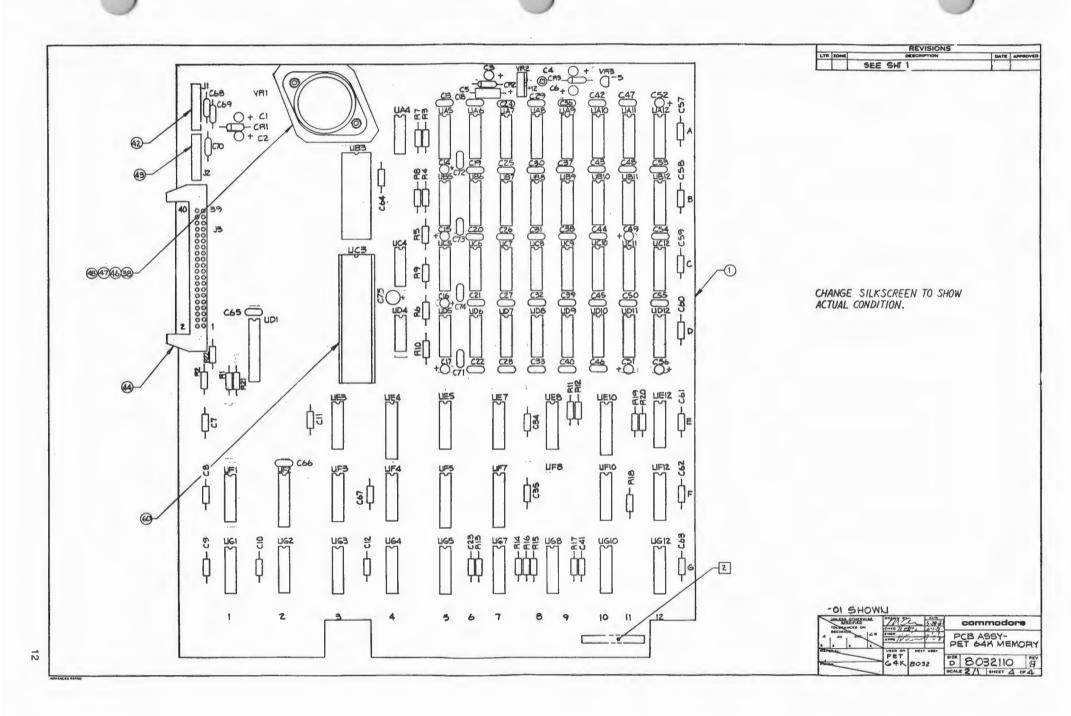
ASSY DWG

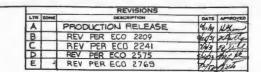
NOTES: UNLESS OTHERWISE SPECIFIED

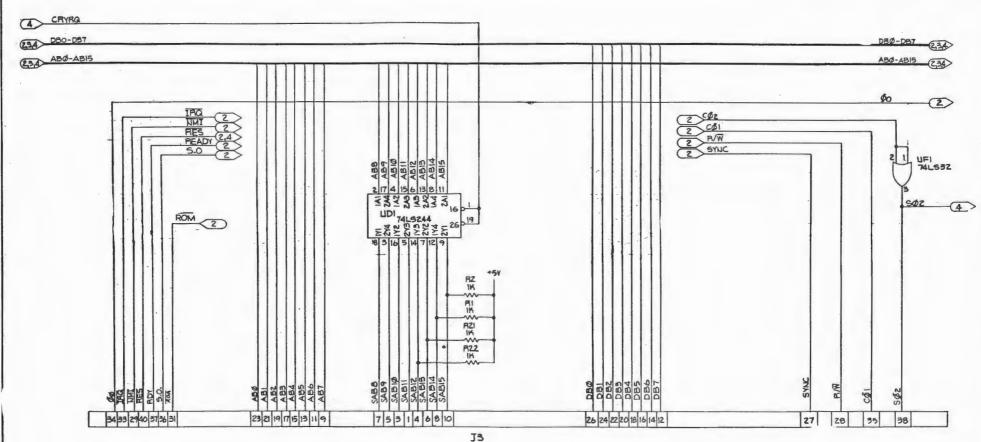
commodore	PCB ASSY-PET	64K MEMORY	5-28-01 APP	SIZE DRAWING NUMBER BOST	STO OF 4

П	T	PART,	DASH I	10.		-01	ITEM	SO	PART	NUMBER	DESCRIPTION	REF DES	BEND	NOTES
+	+	+	++	++	+	ř	1	0	803210	29-01	PCB FAB, PET 64K MEMORY			
						E	2	D	80321		LOGIC DIAGRAM-PET 64K MEMORY	(		
							3	-						
						2	4	B	90152	-01	IC, 74L500	UD4,UG4		
	T	П				5	5	13	90157	1-02	2 74LS04	UE3, UES	JU,	E7,UF12,U62
						ī	6	B	90152	2-30	7407	UG1Z		
	T					1	7	8	90152	1-03	74LS08	UG1		
						2	8	B	90152 90152 90152 90152	1-04	74L520	UF4,UG5		
	T			П		2	9	B	90152	1-05	74L521	UF3, UG3		
	I					23	10	B	90152	1-31	174L532	UGIO, UFI		
						3	11	8	90152	1-44	1 174LS37	LIA4, LIC4		
						3	12	18	90152	1-06	,74LS74	LIEIZ, LIG	1, 1	GB
							13							
						1	14	B	9015	21-18	174L5139	UF5		
						1	15	B	9015	25-14	745140	UF10		
		$\Box$		T		1	16	8	9015	21-13	74LS244	LIDI		
							17							
	I					1			9015	21-42	.74LS273	LE4		
							19							
						1	20	8	9015	21-45	,74L5393	UF7		
						32	51	8	9014	70-06	4116-4 (CERAMIC)	UA5-UA12	. ,1	UB5-UB12, UC5-UC12, UD5-UD12
						1	22	E	9014	35-02	6502 A	цсз		
						1	23	B	90150	01-01	1 3242	UB3		
							24		90152	1 - 15	IC:74LS133	UF2		SEE NOTE 4 FOR SUBSTITUTE
	1	$\perp$					25	1	900101	-37	CAP ELECT. 474F/16V	C5		
						3	26	8	9004	02-15	, ELECT, LOW LEAK, 104F/25Y	C1,C3,C4		
						2	27	18	19004	07-13	TANTALUM IMF/35Y	C2,C6		
	-			11		8	28		900100	10-0	ELECT, IOUF/16Y	C14-C17, C	19	,C51,
	-	1		$\perp$		43	29	18	9000	20-01	CERAMIC MONO JAF 50	VIC13,C18-22,C2	4-5	33,C36-40,C42-48,C50,C53-55,C65,C66,C68-74,C76,C
	+	-		$\sqcup$		19	30		9004	61-28	CERAMIC AXIAL SUF/50Y	167-612,6	-2	3.C34.C35.C41,C57-C64,C67
1	1						2	B	900100	-33	CAP ELECT 474F/16V RESISTOR, CARBON 14W5% 1K	C75		
	-			11	-	11	32	5	9015	0-01	RESISTOR, CARBON 14W5% K	H1.2,13-	7,	19,20, R21, R22
	1			1		1	23	IB	90155	0-107	RESISTOR CARBON 4W5%10	HIB	_	
1	-			$\perp$		0	34	13	190155	0-64	RESISTOR, CARBON 4W5%101	H3-12		
1	-	-		1	-	2	35		90010	0-06	CAP, ELECT, 22 4P/10V	C52,C56		
H	+	-		++	-	3	36	1	9001	50-05	DIODE IN4005	CRI-CR3	-	
					1	L		TITL		-	Thouas ove	DATE	VOD	DATE SIZE DEV SH
-	-	-	mo	de	-		1		0 40	CV	PET 64K MEMORY CHKOTHOL	5.2B.81 6-1-8/ A	ACMA	BB8032110 REV 3

QUANTITY REQD PER PART / DASH NO.	-01 -12 -13 -14	8	PART NUMBER	DESCRIPTION	REF DES	BEND	NOTES
		8	901578-03	VO TAGE REGULATOR TO-3	VRI		7805CK
	159	8	9015 27-01	VOLTAGE REGULATOR TO-3 VOLTAGE REGULATOR TO-220	WAS		7812 CT
	40						
	141	B	901562-01	VOLTAGE REGULATOR TO 92	VR3		
	1 42	8	903326-07	HEADER ASSY, 7 PIN	11		REMOVE PIN 3 AT ASSEMBLY REMOVE PIN 3 AT ASSEMBLY
	1 43	B	903331-07	HEADER ASSY, 7 PIN	12		REMOVE PIN 3 AT ASSEMBLY
	1 44	B	903373-01	HEADER ASSY, 40 PIN	JB		
	45						
	146	B	902906-03	HEATSINK			
	<b>%</b>  47	B	904907-01	HEATSINK, THERMAL COMPOUND	,	-	
	2/48	B	406403-19	VOLTAGE REGULATOR TO 92 HEADER ASSY, 7 PIN HEADER ASSY, 7 PIN HEADER ASSY, 40 PIN HEATSINK HEATSINK, THERMAL COMPOUND RIVET, DOME HEAD-OPEN END			
	50					_	
	51			,		-	
	52				11510		
			900600-01	DELAY LINE, 250ms	MEIO	-	TZB84-10
	54 55					-	
	133	_				-	
	56	B				-	The state of the s
	57	B				-	
	58					-	
	160	-	004150 04	COCKET IC I SULDBOENE ANDIN	V11/2	-	
	61	0	904130-06	SOCKET, IC LOW PROFILE 40PIN	VICS	+	
	62	Н					
	63					1	
	64 65						
	67						
	68						
	67						
	68						
	69						
	70						
	71						
	72						
	73			PET 64K MEMORY CHIKDUNAL	OATE   5-28-81	ENGR	B 8032110 REV







3 DO NOT MOUNT FLUSH TO THE BOARD. MOUNT STANDING UP.

2 CAPACITANCE VALUES ARE IN MICROFARADS, 504. 1. RESISTANCE VALUES ARE IN OHMS, 1/4W ±5%.

NOTES-LINLESS OTHERWISE SPECIFIED:

commodore LOGIC DIAGRAM-PET 64K MEMORY PET 64K SCALE NONE SHEET ) OF 4 8032110

-OI SHOWN

